

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25373

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 19/00

US CL : 702/79,89,103,104,106,116,125,179,189,191-194; 73/861.06; 324/76.12; 714/815

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 702/79,89,103,104,106,116,125,179,189,191-194; 73/861.06; 324/76.12; 714/815

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IEEE Artiles, Engineering Data Books, Text books and web publications

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST (Examiner Automated Search Tool), IEEE Explore, CRC Database, Yahoo, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — A	US 5,581,620 A (Brandstein et al.) 3 December 1996 (3.12.1996), column 2, lines 43-65, column 3, line 45 to column 4, lines 65, column 12, lines 15-56, Fig. 1 and Fig. 6	1-4, 6-16, 18-21, 23-30, 32-34, 38-48, 51-54, 56-62, 64, 65, 66 5, 17, 22, 31, 35-37, 49, 50, 55, 63
X — A	US 6,539,320 B (Szajnowski et al.) 25 March 2003 (25.03.2003), Fig. 2,	1-4, 6-21, 23-34, 36-47, 49-66 5, 22, 35, 48
A	Jaarsma et al., Joint Estimation of Time Delay and Doppler Ratio From Broadband Data Using Discrete Estimaton Technique IEEE Article, April 1991, pages 1289-1292, especially 'Senario Description' section, pages 1289-1290	1-66

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

10 February 2005 (10.02.2005)

Date of mailing of the international search report

12 SEP 2005

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